

Claims

1. (Currently Amended) A method for correcting the thickness of a metal strip during rolling by a roll stand with adjusting elements to regulate the thickness of the strip and at least one take-up coiler, whereas an average strip thickness of a strip section is determined from at least one strip length measurement and the measurement of the dedicated rotation of the take-up coiler and the adjusting elements of the roll stand are controlled at least depending on the average strip thickness of the strip section, ~~characterised in that~~
wherein
the strip thickness is additionally measured radiometrically and the adjusting elements of the roll stand are controlled depending on a radiometric strip thickness corrected using the average strip thickness.

2. (Currently Amended) The method according to claim 1, ~~characterised in that~~
wherein
the strip length is measured using the laser Doppler velocimetry method.

3. (Currently Amended) The method according to claim ~~any one of claims 1 to 2,~~
~~characterised in that~~
wherein
the rotation speed of the take-up coiler is measured using high-resolution incremental sensors on the axis of the take-up coiler or the axis of the take-up coiler motor.

4. (Currently Amended) The method according to claim ~~any one of claims 1 to 3,~~
~~characterised in that~~
wherein
a plurality of values for the average strip thickness of the same strip section is measured by selecting a plurality of different starting points and strip lengths to be measured to determine the average strip thickness.
5. (Currently Amended) The method according to claim 4, ~~characterised in that~~
wherein
the values for the average strip thickness of the same strip section are additionally smoothed with variable weighting depending on the actual coil diameter of the strip on the take-up coiler.
6. (Currently Amended) The method according to claim ~~any one of claims 1 to 5,~~
~~characterised in that~~
wherein
at least one further redundant strip length measurement is made.
7. (Currently Amended) The method according to claim 6, ~~characterised in that~~
wherein
if a first strip length measurement used to determine the average strip thickness fails, there is an automatic switchover to a further redundant strip length measurement.
8. (Currently Amended) A device for correcting the thickness of a metal strip (1) during rolling using at least one roll stand (2) with adjusting elements to regulate the thickness of the strip, at least one take-up coiler (4) as well as means for measuring the strip length (5) and the extent of the dedicated rotation of the take-up coiler (6) and means (18) for controlling the adjusting elements of the roll stand (2) depending on an average strip thickness

determined from the measured strip length and dedicated rotation of the take-up coiler (4) are provided, especially for implementing a method according to claim ~~claims 1 to 7, characterised in that~~ wherein means (8, 9) for radiometric determination of the thickness of the metal strip (1) are additionally provided between the roll stand (2) and take-up coiler (3).

9. (Currently Amended) The device according to claim 8, ~~characterised in that~~ wherein means (5) are provided for redundant measurement of the strip length.

10. (Currently Amended) The device according to claim ~~any one of claims 8 or 9, characterised in that~~ wherein a laser Doppler velocimetry system (5) is provided for measuring the strip length.

11. (Currently Amended) The device according to claim ~~any one of claims 8 to 10, characterised in that~~ wherein high-resolution incremental sensors (6) are provided on the axis of the take-up coiler (7) or the axis of the take-up coiler motor.